1 - Strut

FILE 'CAPLUS' ENTERED AT 16:02:28 ON 07 JUL 2003 137 S SOMATOSTATIN AND ((ANIONIC POLYMER) OR POLYACRYLAMIDE OR POLY L182 S L1 AND PATENT/DT L255 S L1 NOT L2 L3 => d bib, abs 8,22,43,45,46,47,49,50,51 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2003 ACS L_3 AN 1996:491324 CAPLUS 125:230514 DN Nasal delivery of octreotide: Absorption enhancement by particulate TIcarrier systems ΑU Oechslein, Christine R.; Fricker, Gert; Kissel, Thomas CS Department of Pharmaceutics and Biopharmacy, Philipps-Universitaet Marburg, Marburg, Germany International Journal of Pharmaceutics (1996), 139(1,2), 25-32 SO CODEN: IJPHDE; ISSN: 0378-5173 PΒ Elsevier DT Journal LA English AΒ The potential of various powder formulations to enhance the nasal absorption of the somatostatin analog peptide octreotide (Sandostatin) was studied by a combination of in vitro and in vivo expts. The particulate carriers under investigation were microcryst. cellulose (Avicel PH101), semicryst. cellulose (Elcema P050), hydroxyethyl starch, crosslinked dextran (Sephadex G25), microcryst. chitosan, pectin and alginic acid. Detn. of the Ca2+--binding capacity of these carriers demonstrated large differences for excipients of the same chem. compn., depending on the phys. appearance. Whereas Avicel PH101 bound 0.22 .mu.g Ca2+/mg carrier, no Ca2+ binding could be detected for Elcema P050. The following rank order was obtained: swollen Sephadex G25 > alginic acid > microcryst. cellulose = hydroxyethyl **starch** .mchgt. chitosan = pectin = semicryst. cellulose = 0. For Sephadex G25 a pre-swelling time of at least 30 min was necessary to observe calcium binding (0.55 .mu.g /mg). Detn. of water uptake by the different excipients showed a very rapid water uptake of more than 200% (wt/wt) by microcryst. chitosan and Avicel PH101. The rate and extent of water uptake can be ranked for the nasal particulate carriers as follows: chitosan > microcryst. cellulose > semicryst. cellulose .mchgt. pectin = hydroxyethyl starch = alginic acid = Sephadex G25. When the absorption of octreotide was detd. in vivo in rats after nasal administration together with the resp. carrier, the highest bioavailability was seen after coadministration of alginic acid and Sephadex G25 (4,1% and 5.56%). of plasma concn. was between 0.08 and 0.34 min. It was delayed after coadministration of Sephadex G25 and pectin (1 and 2 h), which might be explained by swelling time and gel formation of the excipients. The data suggest a correlation between calcium-binding properties of nasal carriers and their potential as nasal absorption enhancers for peptides under in vivo conditions. L3 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2003 ACS AN1988:149310 CAPLUS DN 108:149310 TTDiet composition and the plasma levels of some peptides regulating pancreatic secretion in the pig ΑU Corring, T.; Chayvialle, J. A. CS Lab. Physiol. Nutr., INRA, Jouy-en-Josas, 78350, Fr. SO Reproduction, Nutrition, Development (1980-1988) (1987), 27(6), 967-77 CODEN: RNDED4; ISSN: 0181-1916 DT Journal LA English

The effects of diet compn. upon the plasma levels of peptides known to be

AΒ

involved in the hormonal regulation of exocrine pancreas secretion were studied in 6 growing Large White pigs. Three pigs were fed in the following sequence: fat-rich diet for 7 days, control diet for 7 days, starch-rich diet for 7 days, and the other 3 pigs were fed the same diets over the same time lengths in inverse sequence. The 3 diets were isoproteinic (16% protein) and isocaloric (3850 cal/kg). Pancreatic adaptation to the diet, i.e., increase of lipase-specific activity when the pigs ingested 6 times more fat per day and an increase in amylase-specific activity when they ingested 3 times more starch per day, was confirmed. Changes in diet compn. did not lead to any lasting significant change in plasma peptide levels. Cholecystokinin, secretin, pancreatic polypeptide, and somatostatin, known to regulate exocrine pancreas secretion, apparently are not involved in the mechanisms of pancreatic amylase and lipase adaptation to the amt. of carbohydrate and fat ingested by pigs.

- L3 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2003 ACS
- AN 1981:26218 CAPLUS
- DN 94:26218
- TI Cell-free synthesis of somatostatin
- AU Oyama, Hideki; O'Connell, Keith; Permutt, Alan
- CS Sch. Med., Washington Univ., St. Louis, MO, 63110, USA
- SO Endocrinology (1980), 107(3), 845-7 CODEN: ENDOAO; ISSN: 0013-7227
- DT Journal
- LA English
- AB The mRNA from catfish pancreatic islets was translated in a wheat germ cell-free protein-synthesizing system. A protein of mol. wt. 12,000, preprosomatostatin, was identified by specific immunopptn. with anti-catfish pancreatic somatostatin and SDS-polyacrylamide gel electrophoresis.
- L3 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2003 ACS
- AN 1980:439861 CAPLUS
- DN 93:39861
- TI Isolation and characterization of immunoreactive **somatostatin** from fish pancreatic islets
- AU Oyama, Hideki; Hirsch, Harry J.; Gabbay, Kenneth H.; Permutt, Alan
- CS Dep. Med., Washington Univ. Sch. Med., St. Louis, MO, 63110, USA
- SO Journal of Clinical Investigation (1980), 65(5), 993-1002 CODEN: JCINAO; ISSN: 0021-9738
- DT Journal
- LA English

AB

Using a radioimmunoassay with labeled synthetic tetradecapeptide somatostatin (I), a large amt. of immunoreactive I was found in the principal pancreatic islet of the channel catfish (Ictalurus punctata). Exts. of islets were chromatog. on a Bio-Gel P-30 column, and >90% of the immunoreactive I migrated with proteins at least twice the size of synthetic tetradecapeptide I. This fraction was further purified by ion-exchange chromatog. on CM-cellulose and DEAEcellulose columns. Two peptides were obtained with identical immunoreactivity, which was .apprx.25% that of the synthetic I. Each peptide was >95% pure by thin-layer electrophoresis, polyacrylamide gel electrophoresis at pH 8.9, and high-pressure liq. chromatog. Further criteria of purity included N-terminal anal. of fraction IV yielding only aspartic acid. A total of 1.3 mg of fraction II, and 3.8 mg of fraction IV I-like peptides were obtained from 10 g of fresh frozen islets. Characterization of the 2 peptides revealed both peptides to be slightly more acidic than synthetic tetradecapeptide I. Fraction II had an isoelec. point of 8.0-8.3, and fraction IV had an isoelec. point of 8.3-9.0. Mol. wt. estn. by Na dodecyl sulfate-urea polyacrylamide gel electrophoresis revealed similar mobility of both peptides, between pancreatic polypeptide (mol. wt. 4500) and glucagon (mol. wt. 3500). The mobility was not altered by redn., and was approx.

twice the size of synthetic tetradecapeptide I (mol. wt. 1800). This confirmed that the peptides were single polypeptide chains and not aggregates, or I bound to larger proteins. Mol. wt. detn. by gel filtration chromatog. on Bio-Gel P-6 in 8M urea gave an estd. mol. wt. of 3700. Amino acid anal. of the 2 immunoreactive I indicated that they were very similar in compn. Both pancreatic I's (1 .mu.M) had full biol. activity relative to synthetic I as measured by inhibition of growth hormone release from rat anterior pituitary cells. ANSWER 46 OF 55 CAPLUS COPYRIGHT 2003 ACS 1980:193868 CAPLUS 92:193868

- L3
- AN
- DN
- TIA radioimmunosorbent assay for plasma somatostatin
- Lundqvist, Gudmar; Gustavsson, Sven; Elde, Robert; Arimura, Akira ΑU
- Dep. Clin. Chem. Surg., Univ. Uppsala, Uppsala, Swed. CS
- Clinica Chimica Acta (1980), 101(2-3), 183-91 SO CODEN: CCATAR; ISSN: 0009-8981
- DT Journal
- LAEnglish
- AΒ A solid-phase radioimmunoassay for the detn. of immunoreactive somatostatin (IRS) in plasma is described. Plasma samples obtained from healthy persons and from anesthetized pigs were extd. with Me2CO/petroleum ether. The antibodies were conjugated to CNBr-activated microcryst. cellulose. Tyr1-somatostatin was iodinated according to the lactoperoxidase method. After extn. the recovery of somatostatin was 80-118%. The sensitivity of the assay was 5-10 pg/mL, and interassay variation was 8-20%. of IRS in systemic blood in man was 77 pg/mL. I.v. administration of 10 .mu.g/kg synthetic somatostatin to anesthetized pigs was followed by a 20-fold increase in plasma IRS. The hypersomatostatinemia rapidly vanished with a half-life of 3.5 min. The level of IRS in cerebrospinal fluid was unchanged by i.v. somatostatin at this dose.
- ANSWER 47 OF 55 CAPLUS COPYRIGHT 2003 ACS L3
- 1980:74083 CAPLUS AN
- DN 92:74083
- TΙ Partial purification and characterization of a peptide with growth hormone-releasing activity from extrapituitary tumors in patients with acromegaly
- Frohman, Lawrence A.; Szabo, Marta; Berelowitz, Michael; Stachura, Max E. ΑU
- CS Michael Reese Med. Cent., Univ. Chicago, Chicago, IL, 60616, USA
- SO Journal of Clinical Investigation (1980), 65(1), 43-54 CODEN: JCINAO; ISSN: 0021-9738
- DTJournal
- LA English
- AB Growth hormone (GH)-releasing activity was detected in exts. of carcinoid and pancreatic islet tumors from 3 patients with GH-secreting pituitary tumors and acromegaly. Bioactivity was demonstrated in 2N acetic acid exts. of the tumors using dispersed rat adenohypophyseal cells in primary monolayer culture and a rat anterior pituitary perfusion system. The GH-releasing effect was dose-responsive and the greatest activity was present in the pancreatic islet tumor. Small amts. of activity were also found in 2 other tumors (carcinoid and small cell carcinoma of lung) unassociated with GH hypersecretion. Each of the tumors contained somatostatin-like immunoreactivity but the levels did not correlate with the net biologic expression of the tumor. Sephadex G-75 gel filtration indicated the GH-releasing activity has an apparent mol. size of slightly greater than 6,000 daltons. The GH-releasing activity was adsorbed onto DEAE-cellulose at neutral pH and low ionic strength, from which it could be eluted by increasing ionic strength. The GH-releasing activity was further purified by high pressure lig. chromatog. using an acetonitrile gradient on a cyanopropyl column to yield a prepn. that was active at 40 ng protein/mL. Partially purified

GH-releasing activity, from which most of the bioactive somatostatin had been removed, increased GH release by pituitary monolayer cultures to five times base line. Enzymic hydrolysis studies revealed that the GH-releasing activity was resistant to carboxypeptidase, leucineaminopeptidase, and pyroglutamate-aminopeptidase, but was destroyed by trypsin and chymotrypsin, indicating that internal lysine and/or arginine and arom. amino acid residues are required for biologic activity and that the NH2-terminus and COOH-terminus are either blocked or not essential. The results provide an explanation for the presence of GH-secreting tumors in some patients with the multiple endocrine neoplasia syndrome, type I, and warrant the addn. of GH-releasing activity to the growing list of hormones secreted by tumors of amine precursor uptake and decarboxylation cell types.

- L3 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2003 ACS
- AN 1979:134707 CAPLUS
- DN 90:134707
- TI Development and validation of a specific radioimmunoassay for somatostatin in human plasma
- AU Penman, Erica; Wass, J. A. H.; Lund, Alison; Lowry, P. J.; Stewart, Jennifer; Dawson, A. M.; Besser, G. M.; Rees, Lesley H.
- CS Dep. Chem. Pathol., St. Bartholomew's Hosp., London, UK
- SO Annals of Clinical Biochemistry (1979), 16(1), 15-25 CODEN: ACBOBU; ISSN: 0004-5632
- DT Journal
- LA English
- AΒ A radioimmunoassay was developed and validated for somatostatin using prior extn. of the peptide onto leached silica glass. Tyrosine-11 somatostatin was iodinated using lactoperoxidase and purified on ODS silica. This method is superior to iodination using chloramine-T with CMC-cellulose purifn., and gives a highly purified prepn. with a shelf-life of at least 8 wks. Using this tracer and a specific antiserum, the limit of sensitivity of the assay was 10 pg/mL, with an intra-assay relative std. deviation of 12% (n = 16) and inter-assay relative std. deviation of 15% (n = 10). Parallelism was demonstrated between std. synthetic cyclic somatostatin and all extd. plasma samples. mean recovery of exogenous somatostatin from plasma was 78%. The fasting level of immunoreactive somatostatin at 0900 h in normal subjects ranged from 17 to 81 pg/mL. Care is needed, however, when comparing these values with those obtained from other labs. since std. prepns. of somatostatin vary considerably in their immunopotency.
- L3 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2003 ACS
- AN 1978:593414 CAPLUS
- DN 89:193414
- TI High molecular **somatostatin**. A possible interfering factor in radioimmunoassav
- AU Diel, F.; Schneider, E.; Baumann, H.
- CS Klin. Steglitz, Freie Univ. Berlin, Berlin, Fed. Rep. Ger.
- SO Radioimmunoassay Relat. Proced. Med., Proc. Int. Symp. (1978), Meeting Date 1977, Volume 1, 123-32 Publisher: IAEA, Vienna, Austria. CODEN: 39EEA2
- DT Conference
- LA English
- AB Cyclic Tyrl-somatostatin (Tyrl-somatotropin-release-inhibiting factor, Tyrl-SRIF) was radioiodinated by the lactoperoxidase method. Purifn. was achieved by Sephadex G 25 chromatog. Specific anti-SRIF antiserum (FA1) was raised in rabbits. A dose-response curve was obtained in the range 5-5000 pg/tube using an antiserum diln. of 1:2000. There was little cross-reaction with linear somatostatin, and none with oxytocin, (Lys-, Arg-) vasopressin, valinomycin, polymyxin, insulin, glucagon, human growth hormones, LH-releasing hormone, and TSH-releasing hormone, each at a concn. of 10 mg/mL. The percentage of nonspecific

binding was 17% for a radioimmunoassay (RIA) incubation time of 18 h at 4.degree.. Bound and free antigen were sepd. by the charcoal technique. With the RIA described, no native cyclic SRIF could be measured in human plasma. For recovery tests, extn. procedures were necessary. Thin-layer chromatog. (TLC) and polyacrylamide gel disc electrophoresis (disc-PAGE) were performed to identify the presumed high-mol. 125I-Tyr1-SRIF associated material. This high-mol. wt. material may represent an interfering factor in the RIA for cyclic SRIF. Thus, the 1st elution peak, V0 (mol. wt. >5000), of the Sephadex G 25 chromatog. increased with storage time of the labeled Tyr1-SRIF. In the RIA, the nonspecific binding value increased from 17% to >30% B/T (bound/total) after a longer period of incubation. TLC of V0 and of the 125I-Tyr1-SRIF fractions from the retarded peak of the G 25 chromatog. shows similar Rf values in acidic elution systems. Disc-PAGE of 1251-Tyr1-SRIF demonstrated radioactivity in gel fractions corresponding to an Rf value of 0.35. This radioactivity could be extd. with acidic solvents.

- L3 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2003 ACS
- AN 1978:593317 CAPLUS
- DN 89:193317
- TI Pig duodenal somatostatin: extraction and purification
- AU Pradayrol, L.; Chayvialle, J.; Mutt, V.
- CS Groupe Biol. Pathol. Dig., INSERM, Toulouse, Fr.
- SO Metabolism, Clinical and Experimental (1978), 27(9, Suppl. 1), 1197-200 CODEN: METAAJ; ISSN: 0026-0495
- DT Journal
- LA English
- AB Somatostatin-like immunoreactive (SLI) peptide was sepd. from pig duodenum, and some of its properties were compared with those of synthetic hypothalamic cyclic somatostatin. The isolation procedure includes: (a) gel filtration of a pig duodenal peptide conc. on Sephadex G 25 (10 .times. 100 cm) equilibrated with 0.2M HOAc; (b) ion-exchange chromatog. on a CM-cellulose column (1.5 .times. 19 cm) equilibrated with 0.1M NH4HCO3 (pH 7.9); (c) treatment of active fractions with alginic acid; and (d) rechromatog. on Sephadex G 25 (2 .times. 200 cm) equilibrated with 0.2M HOAc. Overall recovery of SLI material after these steps was 19%. The recovered SLI peptide was different from synthetic hypothalamic cyclic somatostatin as shown by gel filtration elution profile, hydrophobic chromatog. adsorption properties, and countercurrent distribution studies.

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FILE COVERS 1907 - 7 Jul 2003 VOL 139 ISS 2 FILE LAST UPDATED: 6 Jul 2003 (20030706/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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16999 SOMATOSTATIN

133 SOMATOSTATINS

17007 SOMATOSTATIN

(SOMATOSTATIN OR SOMATOSTATINS)

98673 ANIONIC

239 ANIONICS

98767 ANIONIC

(ANIONIC OR ANIONICS)

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1233056 POLYMER

(POLYMER OR POLYMERS)

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(ANIONIC(W)POLYMER)

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1570 POLYACRYLAMIDES

85168 POLYACRYLAMIDE

(POLYACRYLAMIDE OR POLYACRYLAMIDES)

49638 POLYSACCHARIDE

60530 POLYSACCHARIDES

77263 POLYSACCHARIDE

(POLYSACCHARIDE OR POLYSACCHARIDES)

134230 STARCH

7901 STARCHES

135231 STARCH

(STARCH OR STARCHES)

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3998 CELLULOSES

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4131129 PATENT/DT

82 SOMATOSTATIN AND ((ANIONIC POLYMER) OR POLYACRYLAMIDE OR POLYSAC CHARIDE OR STARCH OR CELLULOSE) AND PATENT/DT

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=> d bib, kwic 20, 24, 27, 29, 32, 33, 34
     ANSWER 20 OF 35 CAPLUS COPYRIGHT 2003 ACS
     1998:509085 CAPLUS
AN
DN
     129:127192
TI
     Preparation of particles for inhalation
     Edwards, David A.; Hanes, Justin; Evora, Carmen; Langer, Robert S.;
ΙN
     Vanbever, Rita; Mintzes, Jeffrey; Wang, Jue; Chen, Donghao
     Massachusetts Institute of Technology, USA; The Penn State Research
PA
     Foundation
     PCT Int. Appl., 64 pp.
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     PATENT NO. KIND DATE APPLICATION NO. DATE
     PATENT NO.
                      A1 19980723
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     US 1997-59004P P
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     US 1997-971791 A2 19971117
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     US 1999-394233 A2 19990913
     US 2001-909145 B1 20010719
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             THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
DT
     Particles incorporating a surfactant and/or a hydrophilic or hydrophobic
AΒ
     complex of a pos. or neg. charged therapeutic agent and a charged mol. of
     opposite charge for drug delivery to the pulmonary system, and methods for
     their synthesis and administration are provided. In a preferred
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embodiment, the particles are made of a biodegradable material and have a

tap d. less than 0.4 g/cm3 and a mass mean diam. 5-30 .mu.m, which together yield an aerodynamic diam. of the particles of 1-3 .mu.m. particles may be formed of biodegradable materials such as biodegradable polymers. For example, the particles may be formed of poly(lactic acid) or poly(glycolic acid) or copolymers thereof. Alternatively, the particles may be formed solely of a therapeutic or diagnostic agent and a surfactant. Surfactants can be incorporated on the particle surface for example by coating the particle after particle formation, or by incorporating the surfactant in the material forming the particle prior to formation of the particle. Exemplary surfactants include phosphoglycerides such as dipalmitoyl phosphatidylcholine (DPPC). particles can be effectively aerosolized for administration to the respiratory tract to permit systemic or local delivery of wide a variety of therapeutic agents. Formation of complexes of pos. or neg. charged therapeutic agents with mols. of opposite charge can allow control of the release rate of the agents into the blood stream following administration. Porous particles were prepd. by spray drying a soln. contq. insulin 2, albumins 19, lactose 19, and dipalmitoylphosphatidylcholine 60

IT Albumins, biological studies
Lipids, biological studies
Nucleic acids
Nucleotides, biological studies
Oligonucleotides

Polysaccharides, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (particulate compns. contg. therapeutic agents and surfactants for inhalation)

50-28-2, Estradiol, biological studies IT 51-34-3, Scopolamine Nicotine 57-83-0, Progesterone, biological studies 58-22-0, 68-22-4, Norethindrone 69-72-7, biological studies tanyl 439-14-5, Valium 4205-90-7, Clonidine 9004 Testosterone 437-38-7, Fentanyl 439-14-5, Valium 9004-10-8, Insulin, biological studies 9004-17-5, Zinc protamine insulin 9007-12-9, Calcitonin 15826-37-6, Cromolyn sodium 18559-94-9, Albuterol 51110-01-1, **Somatostatin** 53714-56-0, Leuprolide 89365-50-4, Salmeterol 103370-86-1, Parathyroid hormone-related peptide 143011-72-7, Granulocyte colony-stimulating factor RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (particulate compns. contg. therapeutic agents and surfactants for inhalation)

L2 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2003 ACS

AN 1996:483651 CAPLUS

DN 125:123755

TI Aerosol formulations of peptides and proteins

IN Baeckstroem, Kjell; Dahlbaeck, Magnus; Johansson, Ann; Kaellstrand, Goeran; Lindqvist, Elisabet

PA Astra Aktiebolag, Swed.; Kaellstrand, Goeran

SO PCT Int. Appl., 23 pp. CODEN: PIXXD2

DT Patent

LA English

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PATENT NO. KIND DATE APPLICATION NO. DATE ---------WO 9619197 A1 19960627 WO 1995-SE1540 19951219 PΙ W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG ZA 9510752 19960624 Α ZA 1995-10752

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TΤ
    Aerosol formulations of peptides and proteins
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AB
    A pharmaceutical aerosol formulation comprises (a) a
    hydrofluoroalkane propellant; (b) a pharmaceutically active polypeptide
    dispersible in the propellant; and (c) a surfactant which is a C8-C16
    fatty acid or salt thereof, a bile salt, a phospholipid, or an alkyl
    saccharide, which surfactant enhances the systemic absorption of the
    polypeptide in the lower respiratory tract. Na caprate 25 parts and
     insulin 75 parts were micronized sep. and the mixt. was added to a bottle,
    which was chilled to -40.degree. and chilled 1,1,1,2-tetrafluoroethane was
    added. The bottle was sealed with a metering valve and then shaken
    vigorously for 30 s to give a good suspension.
ST
    aerosol protein hydrofluoroalkane propellant surfactant; insulin caprate
    tetrafluoroethane suspension aerosol
IT
    Albumins, biological studies
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (additive; aerosol formulations of peptides and proteins)
ΙT
    Gonadotropins
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (aerosol formulations of peptides and proteins)
TI
    Bile salts
    Lysophosphatidylcholines
    Lysophosphatidylethanolamines
    Lysophosphatidylglycerols
    Monosaccharides
    Phosphatidylinositols
    Phosphatidylserines
    Phospholipids, biological studies
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
       (surfactants; aerosol formulations of peptides and proteins)
IT
    Fatty acids, biological studies
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
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(C8-16, surfactants; aerosol formulations of peptides and

proteins) Proteins, specific or class TT RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (biol. active, aerosol formulations of peptides and proteins) ΙT Pharmaceutical dosage forms (sprays, aerosol formulations of peptides and proteins) TT 50-99-7, Glucose, biological studies 56-40-6, Glycine, biological 56-41-7, Alanine, biological studies 57-48-7, Fructose, biological studies 57-50-1, biological studies 59-23-4, Galactose, biological studies 63-42-3 69-65-8, D-Mannitol 69-79-4 87-89-8, Myoinositol 87-99-0, Xylitol 99-20-7, Trehalose 107-43-7, Betaine 470-55-3 512-69-6 585-86-4, Lactitol 585-88-6, Maltitol 597-12-6, Melezitose 9005-25-8, Starch, biological studies 64519-82-0, Palatinit RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (additive; aerosol formulations of peptides and proteins) 50-56-6, Oxytocin, biological studies 75-37-6, 1,1-Difluoroethane TT 145-42-6, Sodium taurocholate 361-09-1, Sodium cholate 431-89-0, 1,1,1,2,3,3,3-Heptafluoropropane 629-25-4, Sodium laurate 811-97-2, 1,1,1,2-Tetrafluoroethane 822-12-8, Sodium myristate 863-57-0, Sodium 1002-62-6, Sodium caprate 5593-79-3, Potassium cholate glycocholate 7487-77-6, Potassium taurocholate 9002-60-2, Corticotropin, biological 9002-64-6, Parathyroid hormone 9002-68-0, Follicle-stimulating hormone 9002-72-6, Growth hormone 9003-98-9, DNase 9004-10-8, Insulin, biological studies 9007-12-9, Calcitonin 9007-92-5, Glucagon, biological studies 9015-71-8, Corticotropin-releasing hormone 9034-39-3, Growth hormone-releasing factor 9034-40-6, Gonadotropin-releasing hormone 10124-65-9, Potassium laurate 11000-17-2, Vasopressin 13040-18-1, Potassium caprate 13429-27-1, Potassium myristate 14479-93-7, Lysine laurate 16679-58-6, Desmopressin 24305-27-9, Thyrotropin-releasing hormone 40111-13-5, Potassium glycocholate 41017-85-0, Dioctanoylphosphatidylcholine 51110-01-1, **Somatostatin** 58846-77-8, Decyl glucoside 62470-55-7 69227-93-6 85637-73-6, Atrial natriuretic factor 118353-07-4 179560-07-7 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aerosol formulations of peptides and proteins) ΙT 764-71-6, Potassium caprylate 1984-06-1, Sodium caprylate 118353-06-3 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (surfactant; aerosol formulations of peptides and proteins) ANSWER 27 OF 35 CAPLUS COPYRIGHT 2003 ACS L2AN 1994:541739 CAPLUS DN 121:141739 ΤI Pharmaceutical nanocapsules for oral administration of peptides and polysaccharides comprising poly(C1-6 alkyl-2-cyanoacrylates) Vranckx, Henri; Demoustier, Martine; Deleers, Michel ΙN PA U C B, S.A., Belg. SO Eur. Pat. Appl., 12 pp. CODEN: EPXXDW DT Patent LA French FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----EP 608207 A1 19940727 EP 608207 B1 19981014 EP 1994-870001 19940105 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE AT 172111 E 19981015 AT 1994-870001 19940105 ES 2122217 T3 19981216 ES 1994-870001 19940105 US 5500224 A 19960319 US 1994-179205 19940110 PL 173254 B1 19980227 PL 1994-301841 19940110 CA 2113243 AA 19940719 CA 1994-2113243 19940111 FI 9400115 A 19940719 FI 1994-115 19940111

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	AU 9453097	A1	19940721	A	U 1994	-53097	19940111				
	AU 670840	B2	19960801								
	NO 9400111	A	19940719		0 1994		19940112				
	ZA 9400205	A	19940822		A 1994		19940112				
	JP 06256172	A2	19940913		P 1994		19940113				
	RU 2145498	C1	20000220		U 1994		19940113				
	HU 67213	A2	19950328	Н	U 1994	-107	19940114				
	GB 1993-875	A	19930118	امد امد		wation of		م م ما			
ΤI	Pharmaceutical na polysaccharides							and			
DT	Patent	Ompri	sing pory(c	.1-6 a1	KY1-2-	cyanoacry	iales/				
AB		nocan	cules for o	ral ad	miniet	ration of	nentides	and			
FAL	B Pharmaceutical nanocapsules for oral administration of peptides and polysaccharides comprising poly(C1-6 alkyl-2-cyanoacrylates) with										
	diamltoreq.500 nm are disclosed. Thus, 1 mL Na lauryl sulfate 5% in										
	acetate buffer was stirred with 10 mL Miglyol 812 contg. 15% Span 80 and										
	the suspension was added to 100.mu.L of butyl-2-cyanoacrylate										
	and left for 240 min to polymerize. The nanocapsules thus obtained were										
	stable for 18 mo					-					
ST	nanocapsule oral	pepti	de polysacc	haride	alkyl	cyanoacr	ylate				
IT	Polysaccharides,			es							
	RL: BIOL (Biologi										
	(pharmaceutica					nistratio	n of pepti	des and,			
	comprising pol			oacryl	ates))						
$_{ m IT}$	Peptides, biologi										
	RL: BIOL (Biologi						-				
	(pharmaceutica							- \ \ \			
IT	<pre>polysaccharide Pharmaceutical do</pre>			id both	(CI-6	aikyicyan	bacrylates	;))			
11	(nanocapsules,			etrati	on of	nentides	and				
	polysaccharide										
IT	8049-62-5, Zinc i							t			
	8049-62-5, Zinc insulin 9004-10-8, Insulin, biological studies 9007-12-9, Calcitonin 51110-01-1, Somatostatin										
	RL: BIOL (Biological study)										
	(pharmaceutica			or ora	l admi	nistratio	n of				
	polysaccharide	s and	, comprisin	g poly	(C1-6	alkylcyan	oacrylates	;))			
L2	ANSWER 29 OF 35		S COPYRIGH	T 2003	ACS						
AN	1993:109720 CAPL	เบร									
DN	118:109720	b =					7	1			
TI	Oral and buccal p promotion enhance		ceutical co	mposit	ion co	ntaining j	polypeptic	les and			
IN	Takama, Shigeyuki	15 . Tno	moto Vukik	o. Mat	о так	ahika. Va	mada Aleis	za. Habida			
TIN	Naoki; Kadoriku,			.0, wat	o, lar.	alliko; iai	mada, Ariiy	a; UCIIIda,			
PA	Teikoku Seiyaku K										
SO	Eur. Pat. Appl.,										
	CODEN: EPXXDW	LT									
DT	Patent										
LA	English										
FAN.	CNT 1										
			DATE	A	PPLICA	TION NO.	DATE				
				-							
ΡI			19921209			-109453					
	R: AT, BE, C							PT, SE			
	CA 2070061	AA	19921208			-2070061					
	AU 9217264 AU 653026	A1 B2	19921210 19940915	А	0 1992	-17264	19920529				
	JP 05148154	A2	19930615	. т	D 1997	-138518	19920529				
	JP 3253127	B2	20020204	U	. 1/22	10010	19920323				
	NO 9202232	A	19921208	N	0 1990	-2232	19920605				
	US 5929027 \	A	19990727			-815574	19970312				
PRAI	JP 1991-136462	A	19910607	J			13370312				
	US 1992-893575	В1	19920604								
	US 1994-262362	В3	19940620								
DT	Patent										

- AB The title compn. comprises a polypeptide, an absorption promoting agent consisting of a combination of an org. acid and a fatty acid sucrose ester in admixt. with a carrier or diluent, which is suitable for oral administration and for application to the oral cavity. A sublingual tablet contained lactose 58.8, cryst. cellulose 24, polyvinylpyrrolidone 3, sucrose palmitate 4, malic acid 10, human calcitonin 0.2g.
- IT Pharmaceutical dosage forms

(solns., peptides and absorption enhancers in)

IT 50-56-6, Oxytocin, biological studies 1393-25-5, Secretin 1407-47-2, Angiotensin 9002-60-2, ACTH, biological studies 9002-64-6, Parathyroid hormone 9002-71-5, Thyrotropin 9002-76-0, Gastrin 9002-79-3, Melanotropin 9007-12-9, Calcitonin 9007-92-5, Glucagon, biological studies 9038-70-4, Somatomedin 24305-27-9, TRH 25126-32-3 37221-79-7, Vasoactive intestinal peptide 39379-15-2, Neurotensin 51110-01-1, Somatostatin 60617-12-1, .beta.-Endorphin 80043-53-4, Gastrin-releasing peptide 83652-28-2, Calcitonin gene related peptide 85637-73-6, Atriopeptin 116243-73-3, Endothelin RL: BIOL (Biological study)

(oral and buccal pharmaceutical compn. contg. absorption enhancers and)

- L2 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2003 ACS
- AN 1992:91416 CAPLUS
- DN 116:91416
- TI Pharmaceutical resorption-improved somatostatin compositions
- IN Fricker, Gerd; Vonderscher, Jacky
- PA Sandoz A.-G., Switz.
- SO Eur. Pat. Appl., 11 pp. CODEN: EPXXDW
- DT Patent
- LA English
- FAN.CNT 1

FAN.CNT 1									
	PA	rent no.	KIND	DATE	AP:	PLICATION NO.	DATE		
ΡI	EΡ	462071	A1	19911218	ΕP	1991-810450	19910613		
	EΡ	462071	B1	19950201					
		R: BE, DK, I	ES, GR	, NL, SE					
	HU	59007	A2	19920428	HU	1991-1849	19910603		
	DE	4119062	A1	19911219	DE	1991-4119062	19910610		
	GB	2244918	A1	19911218	GB	1991-12509	19910611		
	GB	2244918	B2	19940615					
	СН	683069	А	19940114	CH	1991-1755	19910612		
	NO	9102271	A	19911216	NO	1991-2271	19910613		
	CA	2044511	AA	19911216	CA	1991-2044511	19910613		
	FI	9102868	A	19911216	FI	1991-2868	19910613		
	ΑU	9178331	A1	19920102	ΑU	1991-78331	19910613		
	ES	2067906	Т3	19950401	ES	1991-810450	19910613		
	FR	2663227	Al	19911220	FR	1991-7345	19910614		
	FR	2663227	B1	19950428					
	JP	04230223	A2	19920819	JP	1991-143095	19910614		
	ZA	9104583	A	19930224	ZA	1991-4583	19910614		
	FR	2668933	A1	19920515	FR	1991-15570	19911119		
	FR	2668933	В1	19950505					
PRAI	GB	1990-13448		19900615					

- TI Pharmaceutical resorption-improved somatostatin compositions
- DT Patent
- As somatostatin-contg. compn. for the administration via a transmucosal route comprises ursodeoxycholic acid or chenodeoxycholic acid as a resorption promoter having the inhibitory activity of gallstone formation induced by somatostatin as a side effect. When the compn. is administered to the jejunum of the rat, a relative somatostatin bioavailability is enhanced by .gtoreq.400 %, compared with the same compns. without the resorption promoter. An oral capsule contained octreotide 2.3 (equiv. to 2 mg somatostatin),

chenodeoxycholic acid 150, microcryst. cellulose 100, and lactose 50 mg. STsomatostatin capsule ursodeoxycholate absorption promoter; octreotide chenodeoxycholate capsule ΙT Calculi, biliary (formation of, induced by somatostatin, cholanic acids effect on) IT Drug bioavailability (of somatostatin, from chenodeoxycholate-contg. solns .) Pharmaceutical dosage forms ΙT (capsules, of somatostatin, cholanic acids as absorption promoters in) IT Pharmaceutical dosage forms (mucosal, of somatostatin, cholanic acids as absorption promoters in) ΙT Pharmaceutical dosage forms (nasal, of somatostatin, cholanic acids as absorption promoters in) ΙT Pharmaceutical dosage forms (oral, of somatostatin, cholanic acids as absorption promoters in) ITPharmaceutical dosage forms (rectal, of somatostatin, cholanic acids as absorption promoters in) TТ Pharmaceutical dosage forms (suppositories, of somatostatin, cholanic acids as absorption promoters in) IT 128-13-2, Ursodeoxycholic acid 474-25-9, Chenodeoxycholic acid RL: BIOL (Biological study) (somatostatin transmucosal formulations contg., as absorption promoter) 83150-76-9, Octreotide ITRL: BIOL (Biological study) (transmucosal formulations of, chenodeoxycholate as absorption promoter in) IT 51110-01-1, Somatostatin RL: BIOL (Biological study) (transmucosal formulations of, cholanic acids as absorption promoters in) ANSWER 33 OF 35 CAPLUS COPYRIGHT 2003 ACS L21991:49597 CAPLUS ANDN 114:49597 TI Process for microencapsulation of bioactive substances in polymers TN Komen, Joseph; Groenendaal, Jan Willem Gist-Brocades N. V., Neth. PA SO Eur. Pat. Appl., 16 pp. CODEN: EPXXDW DTPatent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ------_____ A1 19900711 PΙ EP 377477 EP 1990-200006 19900102 EP 377477 B1 19930324 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL IL 92344 A1 19930513 IL 1989-92344 19891117 US 5066436 Α 19911119 US 1989-457257 19891227 JP 02247117 A2 19901002 JP 1989-339901 19891228 AU 9047397 AU 1990-47397 A1 19900712 19900102 AU 622967 B2 19920430 AT 87235 E 19930415 AT 1990-200006 19900102 T3 19940816 ES 2055292 ES 1990-200006 19900102

PRAI EP 1989-200015 19890104 EP 1990-200006 19900102

DT Patent

A process for microencapsulating bioactive substances in biocompatible AB polymers according to the phase sepn. principle for the prodn. of controlled-release prepns. comprises, (1) dispersing the bioactive substance in an org. soln. of a biocompatible polymer, (2) adding to the dispersion a coacervation agent, (3) adding an excess of a hardening liq., and (4) collecting, washing, and drying the microcapsules. The hardening liq. is an Et or isopropyl ester of a straight-chain C12-18 fatty acid. The microcapsules are dispersed in a suitable carrier for parenteral and oral administration. A 10% soln. of DL-lactide-glycolide copolymer in CH2Cl2 100 mL was added to 800 mg of bovine serum albumin with stirring and 50 mL of silicone oil was added; the whole content was then poured into 2000 mL of isopropyl myristate at 5.degree. and the obtained microcapsules were washed and sieved; the size of the microcapsules was 25-140 .mu.m and the amt. of the albumin in the microcapsules was 4.73%. The above microcapsules were placed in a phosphate buffer to det. the release of the albumin; an approx. linear release of the albumin up to 70% after 28 days was obsd.

IT 9004-38-0, Cellulose acetate phthalate 9004-57-3, Ethyl
 cellulose 9050-31-1 26023-30-3 26161-42-2 26589-39-9,
 Eudragit S 26680-10-4, Poly(DL-lactide) 26780-50-7,
 DL-Lactide-glycolide copolymer 33135-50-1, Poly(L-lactide) 33434-24-1,
 Eudragit RL 51822-44-7, Eudragit L 52907-01-4, Cellulose
 acetate trimellitate 53237-50-6 125053-52-3, Eudragit NE 300
 RL: BIOL (Biological study)

(bioactive compd. microencapsulation with)

IT 50-56-6, Oxytocin, biological studies 65-49-6, 4-Aminosalicylic acid 89-57-6, 5-Aminosalicylic acid 1407-47-2D, Angiotensin, analogs 5534-09-8, Beclomethasone 17,21-dipropionate 9002-60-2D, Adrenocorticotrophic hormone, analogs 9002-64-6D, Parathyroid hormone, 9002-72-6D, Growth hormone, analogs 9002-76-0D, Gastrin, analogs analogs 9004-10-8D, Insulin, analogs 9007-12-9D, Calcitonin, analogs 9015-71-8D, Corticotropin-releasing factor, analogs 11000-17-2D, Vasopressin, analogs 51110-01-1, Somatostatin 57644-54-9, Bismuth subcitrate 59392-49-3D, Gastric inhibitory peptide, analogs 80043-53-4D, Gastrin releasing peptide, 60118-07-2D, Endorphin, analogs analogs

RL: BIOL (Biological study)

(microencapsulation of, in polymers, fatty acid ester hardening agents for)

- L2 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2003 ACS
- AN 1990:62633 CAPLUS
- DN 112:62633
- TI Intranasal administration of polypeptides in powdered form
- IN Vickery, Brian H.; Fu, Cherng Chyi; Benjamin, Eric J.; Sanders, Lynda M.
- PA Syntex (U.S.A.), Inc., USA
- SO Eur. Pat. Appl., 28 pp. CODEN: EPXXDW
- DT Patent
- LA English

FAN CNT 1

PAN.	CNI	T													
	PA?	rent .	NO.		KII	ND	DATE			AP	PLICAT	ION N	. 01	DATE	
ΡI	ΕP	3120	52		A:	1	1989	0419		EP	1988-	11702	9	19881	013
	ΕP	3120	52		В:	1	1994	0105							
		R:	ΑT,	ΒE,	CH,	DE,	ES,	FR,	GB,	GR,	IT, LI	, LU,	NL,	SE	
	JP	0113	2532		A2	2	1989	0525		JP	1988-	26035	0	19881	013
	JP	2851	627		B2	2	1999	0127							
	ZA	8807	658		Α		1990	0627		ZA	1988-	7658		19881	013
	ΑT	9954	3		E		1994	0115		AT	1988-	11702	9	19881	013
	ES	2061	591		T	3	19941	1216		ES	1988-	11702	9	19881	013

	CA	1336401	A1	19950725	CA	1988-580103	19881013
	ΑU	8823751	A1	19890601	ΑU	1988-23751	19881014
	ΑU	623609	B2	19920521			
	US	6521597	В1	20030218	US	1992-902405	19920619
PRAI	US	1987-109678	A	19871015			
	ΕP	1988-117029	A	19881013			

DT Patent

AB Pharmaceutical powders for intranasal administration comprise biol. active polypeptides, e.g. LHRH analogs, or their salts and water-sol. polysaccharides. A powd. formulation having 4 wt.% nafarelin (I) and 2 wt.% Na glycocholate (absorption enhancer) was made by freeze-drying a soln. contg. I acetate in an amt. equiv. to 10 mg I as the free base, 235 mg dextran T70 and 5 mg Na glycocholate, grinding the product and passing the resultant powder through a #200 std. mesh. The peak blood level in monkeys of I was 76 ng/mL from a 100 mg dose of the above formulation (400 .mu.g I) compared with 22 ng/mL from a 4% powder without the absorption enhancer and 8 ng/mL from a nasal soln.

ST polypeptide polysaccharide nasal powder; peptide polysaccharide nasal powder

IT Peptides, biological studies

RL: BIOL (Biological study)

(bioactive, nasal powders contg. water-sol. polysaccharides and)

IT Polysaccharides, biological studies

RL: BIOL (Biological study)

(nasal powders contg. bioactive polypeptides and)

IT Pharmaceutical dosage forms

(powders, nasal, contg. bioactive polypeptides and water-sol.

polysaccharides)

IT 9002-64-6, Parathyroid hormone 9015-71-8, Corticotropin-releasing factor
9034-39-3, GHRH 40958-31-4, Somatostatin (sheep reduced)
53714-56-0, Leuprorelin 57773-63-4 57773-65-6 57982-77-1, Buserelin
65807-02-5, Goserelin 66866-63-5, Lutrelin 76712-82-8, Histrelin
76932-56-4, Nafarelin 76932-60-0, Nafarelin acetate 85637-73-6, Atrial
natriuretic peptide 89662-30-6, Detirelix 91991-07-0 124904-93-4
124926-38-1

RL: BIOL (Biological study)

(nasal powders contq. dextran and)